

What is claimed is:

1. A motion picture transmission method for transmitting video data through a transmission line that a motion picture signal is coded in a video transmission unit, said method comprising the steps of:  
5 generating at least I picture data and a plurality of P picture data in said video transmission unit; and  
transmitting said I picture data and a  
10 predetermined number of P picture data in accordance with a request from said transmission line.
2. A motion picture transmission method according to claim 1, wherein said transmission line comprises  
15 transmission lines having different transmission speeds of said video data, and the number of said P picture data is changed according to transmission speeds of said transmission lines.
- 20 3. A motion picture transmission method according to claim 2, wherein said video transmission unit encodes said motion picture signal on the bases of either one of MPEG-4 and MPEG-2.
- 25 4. A motion picture transmission method according to claim 1, wherein in the case where it is determined that said I picture data comprises at least first I picture data and second I picture data, transmission of

said P picture data subsequent to said first I picture data is cancelled and transmission is started from said second I picture data.

5        5.        A motion picture transmission method according to claim 1, wherein when the number of said P picture data is changed, the number of P picture data subsequent to said I picture data is changed in accordance with the transmission speed of said  
10       transmission line, and the changed number of said P picture data is transmitted.

6.        A motion picture transmission method according to claim 1, wherein said video transmission unit stores  
15       the number of I picture data and a plurality of P picture data according to a request from said transmission line, and transmits said stored I picture data and P picture data as stream data of a GOP unit to said transmission line.

20

7.        A motion picture transmission system comprising:

          a video transmission unit for encoding a motion picture signal;

25        a transmission line for transmitting video data encoded in said video transmission unit; and

          a video reception unit for receiving said video data transmitted via said transmission line,

wherein said video transmission unit includes  
generator for generating at least an I picture  
data and a plurality of P picture data, and

5 selector for selecting said I picture data and  
a predetermined number of P picture data in accordance  
with a request from said transmission line.

8. A motion picture transmission system according  
to claim 7, wherein said transmission line comprises  
10 transmission lines having different transmission speeds  
of said video data, and

said selector for selecting said I picture and  
a predetermined number of P picture data in accordance  
with a request from said transmission line includes  
15 means for changing the number of said P picture data in  
accordance with transmission speeds of said  
transmission lines and sending the changed number of  
said P picture data.

20 9. A motion picture transmission system according  
to claim 8, wherein the means for changing the number  
of said P picture data in accordance with transmission  
speed of said transmission line and transmitting the  
changed number of said P picture data includes means  
25 for changing the number of P picture data subsequent to  
said I picture data.

10. A motion picture transmission system according

to claim 7, wherein said image transmission unit further comprises a memory unit,

5        said memory unit stores the number of I picture data and a plurality of P picture data according to a request from said transmission line, and

      said video transmission unit converts said stored I picture data and P picture data into stream data of a GOP unit and transmits said stream data to said transmission line.

10

11.        A motion picture transmission system according to claim 8, wherein said video reception unit comprises a plurality of video reception units, said plurality of video reception units being connected to transmission  
15        lines of different transfer speeds of said video data, respectively, said video transmission unit transmits a predetermined number of I picture data and P picture data in accordance with a request from each of said video reception units to each of said video reception  
20        units, and each of said video reception units reproduces a motion picture from each of the received I picture data and P picture data.

12.        A motion picture transmission apparatus  
25        comprising:

      a coding unit for converting a motion picture signal into at least I picture data and a plurality of P picture data;

a memory unit for storing said I and P picture data;

an output unit for outputting said I and P picture data; and

5 a control unit for controlling said output unit, wherein said control unit controls the number of I picture data and the number of P picture data output from said output unit in accordance with a request from a transmission line.

10

13. A motion picture transmission apparatus according to claim 12, wherein a request from said transmission line is the different number of said I picture data and said P picture data , and

15

said control unit changes the number of said P picture data in accordance with a request from said transmission line and transmits the changed number of P picture data.

20

14. A motion picture transmission apparatus according to claim 13, wherein in the case of changing the number of said P picture data in accordance with a request from said transmission line, and transmitting them, the number of P picture data subsequent to said I picture data is changed and the changed number of P picture data is transmitted.

25

15. A motion picture transmission apparatus

according to claim 12, wherein said memory unit stores the number of I picture data and a plurality of P picture data according to a request from said transmission line, and

- 5           said control unit converts said stored I picture data and P picture data into stream data of the GOP unit and transmits the stream data from said output unit.